What Is Claimed is:

- 1. A method for end-to-end environmental data acquisition and delivery comprising the steps of:
 - a) acquiring environmental subsurface data via direct reading sensors;
 - b) geo-referencing said data;
 - c) transmitting said data to a data analysis application server; and
 - d) analyzing said data to obtain information about said data.
- 2. The method of claim 1, wherein said data of step (a) comprises: one or more data parameters.
- 3. The method of claim 1, wherein said environmental subsurface data relates to chemical and geological attributes of the subsurface.
- 4. The method of claim 1, wherein said direct reading sensors of step (a) comprise at least one of:

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optical sensors;
chemical sensors;
electromechanical sensors;
membrane interface probe (MIP) sensors;
advanced MIP sensors;
laser induced fluorescence (LIF) sensors;
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ultraviolet induced fluorescence (UVF) sensors;

polymer sensors; and

direct sensing technologies;

haloprobe sensors.

5. The method of claim 1, wherein said geo-referencing of said step (b) comprises at least one of:

geo-referencing in at least two dimensions; and geo-referencing said data to a specific point on the earth's surface.

6. The method of claim 5, wherein said at least two dimensions comprise at least one of:

latitude, longitude, altitude, and time.

- 7. The method of claim 1, wherein said geo-referencing of said step (b) comprises: geo-referencing in at least three dimensions.
- 8. The method of claim 7, wherein said at least three dimensions comprise at least one of: latitude, longitude, altitude, and time.
- 9. The method of claim 1, wherein said transmitting of step (c) comprises at least one of:

transmitting via the Internet; and transmitting via a wireless communications link.

- 10. The method of claim 1, wherein said application server of step (c) comprises: an application service provider (ASP).
- 11. The method of claim 1, wherein said step (d) comprises at least one of:

storing said data in a database;

mining said data;

calculating said information from said data using an algorithm;
performing visualization processing in at least two dimensions;
displaying a graphical visualization of said data;
mapping said data; and

displaying in at least one of: two-dimensional and three-dimensional formats said data.

12. The method of claim 1, wherein said step (d) comprises at least one of:

refining raw data into processed data;

normalizing said data for variations in acquisition of said data;

normalizing for condition of a membrane of a membrane interface

probe (MIP);

normalizing for variation of actual subsurface conditions including at least one of chemical concentration and soil water matrix;

determining relative quality efficacy data including determining at least one of: pressure, flow rate, condition of detectors, drift, calibration, depth of probe, hydrostatic, and baseline noise of analytical/electrical system;

storing said data;

aggregating said data into aggregate data;

determining predictive modeling using said aggregate data;

assessing measure of risk using said aggregate data;

evaluating risk using said aggregate data;

calculating total mass of chemical compounds;

calculating volume of affected soil and groundwater;

calculating compound identification,

calculating removal costs,

performing sensitivity analysis, and

comparing data of multiple sites.

13. The method of claim 12, wherein said step of performing a sensitivity analysis comprises at least one of:

displaying using a "dashboard" type display; and

providing results to at least one of an office device, and a field device.

- 14. The method of claim 1, further comprising:
 - e) posting said information on a web site for access by authorized users.
- 15. The method of claim 14, wherein said web site comprises:

a secure Internet Web site.

- 16. The method of claim 1, further comprising:
 - e) transmitting said information over a network to a mobile device.
- 17. The method of claim 16, wherein said network comprises:

a wireless network.

- 18. The method of claim 1, further comprising at least one of:
 - e) aggregating said data into a database;
 - f) mining said database;
 - g) determining predictive modeling using said aggregate data;
 - h) assessing measure of risk using said aggregate data;
 - i) evaluating risk using said aggregate data;
 - j) providing the user with relative analysis of various sites based on at least one of: geological information, and contaminant conditions; and
 - k) storing said data in a database;
 - 1) grooming data;
 - m) comparing data to at least one of: historical data, and data from other sites;
 - n) performing datamining; and
 - o) ranking sites.

- 19. The method of claim 1, further comprising:
 - e) transmitting said information comprising:
 - transmitting said information including completed data analytics via the Internet back to source location for decisionmaking and process changes; and
 - ii. transmitting said information wirelessly to a mobile device to facilitate access via Internet protocols to said information analyzed from said sensor outputs.
- 20. The method of claim 1, further comprising at least one of:
 - f) normalizing said data for variations in at least one of: acquisition of said data, condition of membrane of a membrane interface probe (MIP), subsurface conditions including at least one of chemical concentration and soil water matrix; and
 - g) determining relative quality efficacy data including determining at least one of: pressure, flow rate, condition of detectors, drift, calibration, depth of probe, hydrostatic, and baseline noise of analytical/electrical system.